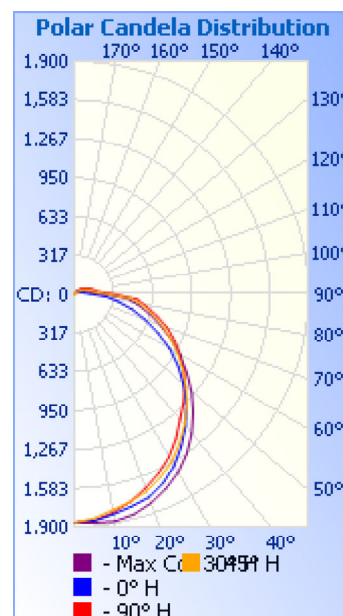


# Photometrics Pro

## Luminaire Photometric Report

**Filename:** T-Bar Panel 2x4 55W FL24  
**Manufacturer:** SARIN Energy Inc  
**Luminaire:** LED Luminaries  
**Luminaire Cat:** SES-FL24-XXXX-55  
**Lamp Output:** 1 lamp, rated Lumens/lamp: 6879.9  
**Max Candela:** 1,890.5 at Horizontal: 30°, Vertical: 10°  
**Input Wattage:** 54.98  
**Luminous Opening:** Rectangle w/Luminous Sides (L: 47.24", W: 22.83", H: 0.39")  
**Test Date:** 2019/11/8  
**Test Lab:** LCTECH 191107108012  
**Photometry :** Type C



### Roadway Summary

Cutoff Classification:	SEMICUTOFF
Distribution:	Type VS
Max Cd, 90 Deg Vert:	321.3
Max Cd, 80 to <90 Deg:	633.3
	Lumens % Lamp
Downward Street Side:	3,218.9 46.8%
Downward House Side:	3,218.9 46.8%
Downward Total:	6,437.8 93.6%
Upward Street Side:	219.6 3.2%
Upward House Side:	219.6 3.2%
Upward Total:	439.1 6.4%
<b>Total Lumens:</b>	<b>6,876.9 100%</b>

### Flood Summary

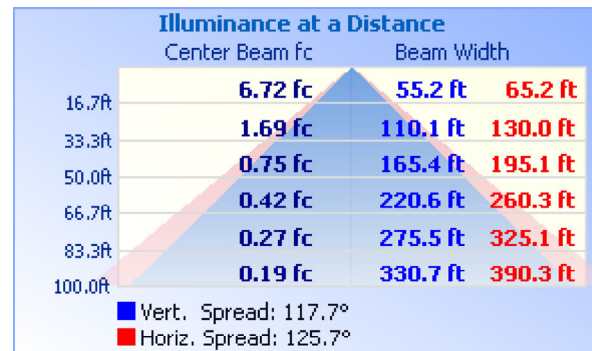
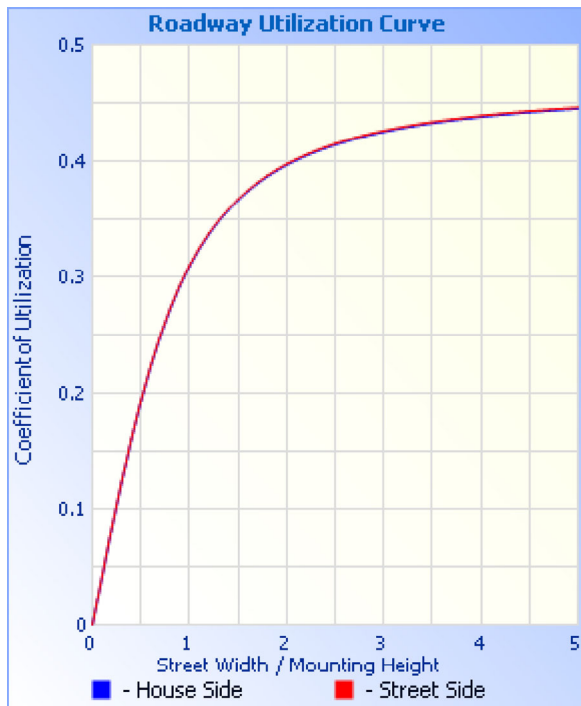
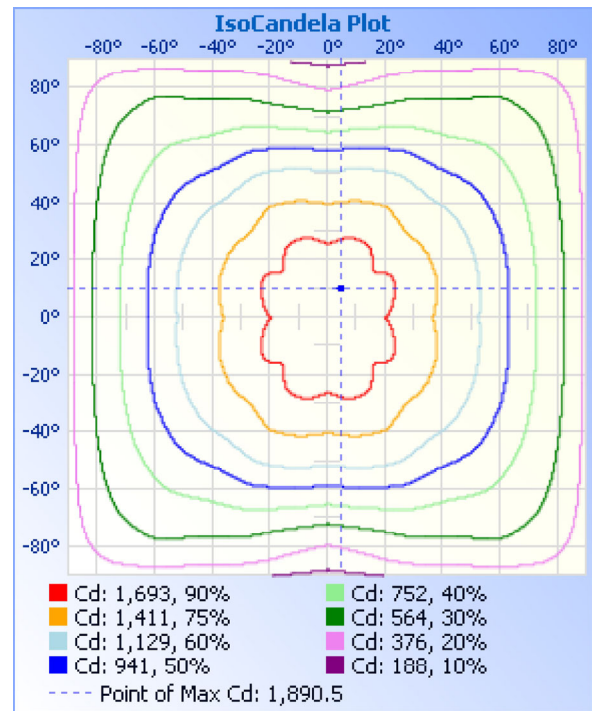
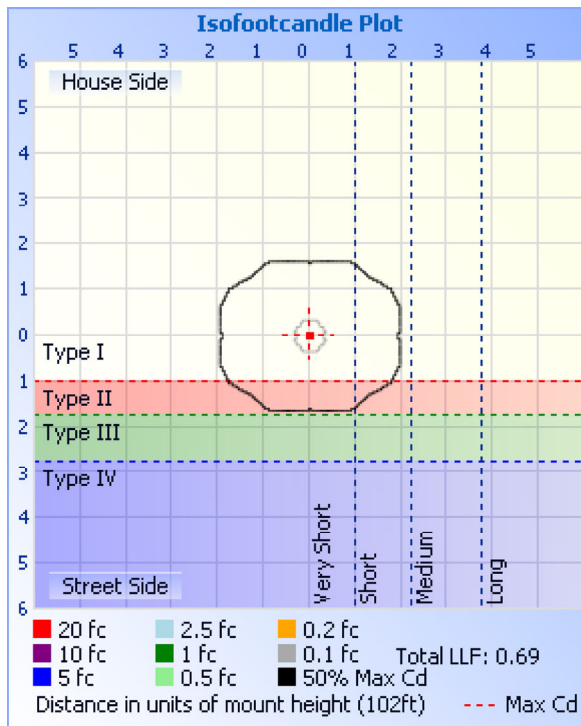
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	94.9%	6,526.1	n/a	177
Beam (50%):	67.1%	4,616.8	125.7	117.7
<b>Total:</b>	<b>99.9%</b>	<b>6,875.4</b>		

### Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	1,477.9	21.5%	21.5%
0-40	2,433.3	35.4%	35.4%
0-60	4,424.4	64.3%	64.4%
60-90	2,011.6	29.2%	29.3%
70-100	1,343.7	19.5%	19.5%
90-120	384.5	5.6%	5.6%
0-90	6,436.0	93.5%	93.6%
90-180	439.3	6.4%	6.4%
0-180	6,875.3	99.9%	100%

### Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	177.6	2.6%	90-100	192.1	2.8%
10-20	514.6	7.5%	100-110	118.0	1.7%
20-30	785.8	11.4%	110-120	74.5	1.1%
30-40	955.4	13.9%	120-130	39.2	0.6%
40-50	1,014.0	14.7%	130-140	10.0	0.1%
50-60	977.1	14.2%	140-150	2.1	0%
60-70	859.9	12.5%	150-160	1.8	0%
70-80	686.8	10.0%	160-170	1.3	0%
80-90	464.9	6.8%	170-180	0.5	0%



**Coefficients Of Utilization - Zonal Cavity Method**

Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50			30			10			0
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.17	1.17	1.17	1.17	1.14	1.14	1.14	.94	1.07	1.07	1.07	1.02	1.02	1.02	.96	.96	.96	.94
1	1.05	.99	.93	.89	1.01	.96	.91	.74	.90	.86	.83	.85	.82	.79	.80	.78	.75	.73
2	.94	.85	.77	.70	.91	.82	.75	.60	.77	.71	.66	.73	.68	.64	.69	.65	.61	.59
3	.85	.74	.65	.57	.82	.71	.63	.50	.67	.60	.55	.64	.58	.53	.60	.55	.51	.48

4	.78	.65	.55	.48	.75	.63	.54	.43	.60	.52	.46	.56	.50	.45	.53	.48	.43	.41
5	.71	.58	.48	.41	.69	.56	.47	.37	.53	.45	.39	.50	.44	.38	.48	.42	.37	.35
6	.66	.52	.42	.36	.63	.50	.42	.32	.48	.40	.34	.46	.39	.33	.43	.37	.33	.30
7	.61	.47	.38	.31	.59	.46	.37	.28	.43	.36	.30	.41	.35	.29	.40	.33	.29	.27
8	.57	.43	.34	.28	.55	.42	.33	.25	.40	.32	.27	.38	.31	.26	.36	.30	.26	.24
9	.53	.39	.31	.25	.51	.38	.30	.23	.36	.29	.24	.35	.28	.24	.33	.28	.23	.21
10	.50	.36	.28	.22	.48	.35	.27	.21	.34	.27	.22	.32	.26	.21	.31	.25	.21	.19

**Candela Table - Type C**

	0	15	30	45	60	75	90
0	1873	1873	1873	1873	1873	1873	1873
5	1862	1870	1880	1843	1868	1874	1864
10	1830	1867	1890	1795	1872	1860	1816
15	1799	1865	1868	1760	1853	1824	1760
20	1769	1835	1821	1716	1810	1759	1691
25	1707	1761	1758	1654	1721	1671	1618
30	1620	1675	1685	1581	1627	1600	1536
35	1517	1572	1593	1489	1526	1508	1441
40	1407	1457	1484	1395	1421	1401	1337
45	1290	1339	1365	1293	1311	1300	1256
50	1161	1209	1244	1185	1210	1202	1170
55	1032	1080	1116	1076	1113	1109	1088
60	894	940	988	968	1018	1017	995
65	751	803	864	863	923	929	899
70	614	671	744	763	824	829	805
75	485	548	633	663	727	728	697
80	361	438	531	570	633	629	597
85	262	340	434	476	538	539	515
90	132	173	233	264	309	321	316
95	82	103	144	169	196	200	194
100	71	84	117	140	165	171	168
105	62	65	95	116	139	143	146
110	53	53	78	95	115	121	124
115	46	45	57	78	90	102	106
120	39	38	35	59	69	85	89
125	33	32	25	29	54	70	74
130	24	22	12	5	31	50	56
135	10	8	3	3	6	22	28
140	3	3	3	3	3	3	4
145	3	3	3	3	3	3	3
150	3	3	4	3	3	3	4
155	4	4	4	4	4	4	4
160	4	4	4	4	4	4	4
165	5	5	5	5	5	5	4
170	5	5	5	5	5	5	5
175	5	5	5	5	6	6	5
180	5	5	5	5	5	5	5

**Luminaire Report Summary**

IESNA:LM-63-2002  
[TEST]  
[TESTDATE] 2019/11/8  
[TESTLAB] LCTECH 191107108012  
[ISSUE DATE] 2019/11/8  
[MANUFAC] SARIN Energy Inc  
[LUMCAT] SES-FL24-XXXX-55  
[LUMINAIRE] LED Luminaires  
[\_TOTALLUMINAIRELUMENS] 6875.3  
[LUMELE] 120.03 0.473 54.98 0.9692  
FILE: CANDELA MULTIPLIER: 1  
FILE: VERTICAL ANGLES: 37, HORIZONTAL ANGLES: 7  
FILE: COORDINATE SYSTEM: TYPE C  
FILE: UNIT OF MEASURE: METRIC  
FILE: BALLAST FACTOR: 1

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Reported data calculated from manufacturer's data file, based on IES recommended methods.